

Cumulative Contents

Regular Papers

- The effect of cholesterol on the accumulation of intracellular calcium
Q. Zhou, S. Jimi, T.L. Smith and F.A. Kummerow (U.S.A.) 1
- Efflux of phospholipid from fibroblasts with normal and elevated levels of cholesterol
J.K. Bielicki, W.J. Johnson, J.M. Glick and G.H. Rothblat (U.S.A.) 7
- Endotoxin-induced arachidonic acid metabolism requires de novo protein synthesis and protein kinase C activation
J. Geisel, J.A. Cook, K.A. Coffee, W.C. Wise and P.V. Halushka (U.S.A.) 15
- Hydroxyecosatetraenoic acid oxidation in chinese hamster ovary cells: a peroxisomal metabolic pathway
J.A. Gordon, R.A. Zoeller and A.A. Spector (U.S.A.) 21
- Neutral lipid synthesis and accumulation during in vitro induction of the lipocyte phenotype in hepatic connective tissue cells
R.M. Guaragna, L. Trugo and R. Borojevic (Brazil) 29
- Perinatal development of hepatic cholesterol synthesis in the rat
N.C. Haave and S.M. Innis (Canada) 35
- Stereospecificity of the hydroxyecosatetraenoic and hydroxyoctadecadienoic acids produced by cultured bovine endothelial cells
A.N. Baer, P.B. Costello and F.A. Green (U.S.A.) 45
- On the conformational, physical properties and functions of polyunsaturated acyl chains
A.L. Rabinovich and P.O. Ripatti (U.S.S.R.) 53
- Sources of diradylglycerols generated during cell growth and phorbol ester stimulation in Madin-Darby canine kidney cells
M. Robinson and T.R. Warne (U.S.A.) 63
- Transformations of reconstituted high-density lipoprotein subclasses as a function of temperature or LDL concentration
A. Jonas, K. Bottum and K.E. Kézdy (U.S.A.) 71
- Calcium regulation of the human PMN cytosolic 15-lipoxygenase
R.C. Nichols and J.Y. Vanderhoek (U.S.A.) 77
- Dietary regulation of maternal and fetal cholesterol metabolism in the guinea pig
N.Y. Yount and D.J. McNamara (U.S.A.) 82
- PAF-receptor. III. Conformational and electronic properties of PAF-like agonists and antagonists
J. Lamotte-Brasseur, G. Dive, A. Lamouri, F. Heymans and J.-J. Godfroid (Belgium, France) 91
- Diurnal variations of rat liver enzymes catalyzing cholesterol ester hydrolysis
M.J. Martinez, J.I. Ruiz, M. Lacort and B. Ochoa (Spain) 106
- Role of lipid transfer particle in transformation of lipophorin in insect oocytes
H. Liu and R.O. Ryan (Canada) 112
- Decreased serum lipids, serum insulin and triacylglycerol synthesis in adipose tissue of JCR:LA-corpulent rats treated with benfluorex
D.N. Brindley, P. Hales, A.I.I. Al-Sieni and J.C. Russell (Canada) 119
- Lipid hydrogenation induces elevated 18:1-CoA desaturase activity in *Candida lipolytica* microsomes
I. Horváth, Z. Török, L. Vigh and M. Kates (Hungary, Canada) 126

Rapid Reports

- The effects of probucol on lipoprotein metabolism in the rat
B. Staels, A. Van Tol, H. Jansen and J. Auwerx (Belgium, The Netherlands) 131
- Biosynthesis of paf-acether. XVI. Acetyltransferase specificity determines composition of paf-acether molecular species in human polymorphonuclear neutrophils
E. Ninio and G. Bessou (France) 136

Review

- Metabolic aspects of peroxisomal β -oxidation
H. Osmundsen, J. Bremer and J.I. Pedersen (Norway) 141

Regular Papers

- Effect of vitamin E on arachidonic acid peroxidation and its binding to Chinese hamster V79 cell DNA
J.-R. Zhang and A. Sevanian (U.S.A.) 159
- Evidence that the rate of phosphatidylcholine catabolism is regulated in cultured rat hepatocytes
L.B.M. Tijburg, T. Nishimaki-Mogami and D.E. Vance (Canada) 167
- Head group specificity in the regulation of phosphatidylcholine catabolism in rat hepatocytes
L.B.M. Tijburg and D.E. Vance (Canada) 178
- Evidence that remodeling of the fatty acids of phosphatidylcholine is regulated in isolated rat hepatocytes and involves both the *sn*-1 and *sn*-2 positions
L.B.M. Tijburg, R.W. Samborski and D.E. Vance (Canada) 184
- Arachidonic acid metabolism during antigen and ionophore activation of the mouse bone marrow derived mast cell
T. Nakamura, A.N. Fonteh, W.C. Hubbard, M. Triggiani, N. Inagaki, T. Ishizaka and F.H. Chilton (U.S.A.) 191
- Characterization of several phospholipase activities and diacylglycerol/2-monoacylglycerol lipases in rat alveolar macrophages
M. Errasfa (U.S.A.) 201
- Effects of various non-esterified fatty acids on the transfer of cholesteryl esters from HDL to LDL induced by the cholesteryl ester transfer protein
L. Lagrost and P.J. Barter (Australia) 209
- Isolation and characterization of carnitine acetyltransferase from *S. cerevisiae*
G. Kispal, J. Cseko, I. Alkonyi and A. Sandor (Hungary) 217
- Physical and biological properties of fluorescent dansylated bile salt derivatives: the role of steroid ring hydroxylation
J.M. Crawford, Y.J. Lin, B.A. Teicher, J.P. Narciso and J.L. Gollan (U.S.A.) 223
- Effect of 17 β -estradiol on PAF and prostaglandin levels in oophorectomized rat uterus
R. Nakayama, K. Yasuda, T. Okumura and K. Saito (Japan) 235
- Arachidonate 5-lipoxygenase of porcine pancreas: its localization in acinar cells
K. Natsui, N. Ueda, S. Yamamoto, N. Komatsu and K. Watanabe (Japan) 241
- The role of palmitic acid in pulmonary surfactant: enhancement of surface activity and prevention of inhibition by blood proteins
A.M. Cockshutt, D.R. Absolom and F. Possmayer (Canada, U.S.A.) 248
- ³¹P-NMR study of brain phospholipid structures in vivo
P.M. Kilby, N.M. Bolas and G.K. Radda (U.K.) 257
- Acyl-CoA:cholesterol acyltransferase in HT 29 cell subpopulations. Defect of activity in the undifferentiated cells
V. Viallard, C. Lacombe, C. Nebot, I. Castan and V. Trocheris (France) 265
- Review**
- Cholesterol transport between cells and high-density lipoproteins
W.J. Johnson, F.H. Mahlberg, G.H. Rothblat and M.C. Phillips (U.S.A.) 273
- Interaction of low-density lipoproteins with gangliosides
I.A. Mikhailenko, S.A. Dubrovskaya, O.B. Korepanova, N.G. Timofeeva, A.D. Morozkin, N.V. Prokazova and L.D. Bergelson (U.S.S.R.) 299
- Apolipoprotein-specific populations in high density lipoproteins of human cord blood
A.V. Nichols, P.J. Blanche, O. Genzel-Boroviczeny, T.M. Forte and E.L. Gong (U.S.A.) 306
- Compartmentalization of cholesterol metabolism and cellular growth in cultured intestinal crypt cells
F.M. Reimann, G. Herold, A. Schneider and E.F. Stange (F.R.G.) 315
- Inactivation of pancreatic and gastric lipases by THL and C_{12:0}-TNB: a kinetic study with emulsified tributyrin
Y. Gargouri, H. Chahinian, H. Moreau, S. Ransac and R. Verger (France, Tunisia) 322
- On the mechanism of stimulation of cholesterol 7 α -hydroxylase by dietary cholesterol
I. Björkhem, G. Eggertsen and U. Andersson (Sweden) 329
- Effects of exogenous apo E-3 and of cholesterol-enriched meals on the cellular metabolism of human chylomicrons and their remnants
R. Arnon, E. Sehayek, T. Vogel and S. Eisenberg (Israel) 336
- Effects of cholestanol feeding on corneal dystrophy in mice
K.S. Kim, K. Kano, T. Kasama, Y. Ishii, H. Yamashita and Y. Seyama (Japan) 343
- Synthesis of nuclear lipids in L₂C leukemic lymphocytes
S. Aliau, C. Tabacik, S.-P. Aliau and B. Descomps (France) 350
- Utilization of gammalinolenic acid by mouse peritoneal macrophages
R.S. Chapkin and K.J. Coble (U.S.A.) 365

Extensive incorporation of dietary Δ -5,11,14 eicosatrienoate into the phosphatidylinositol pool
A. Berger and J.B. German (U.S.A.) 371

A proportion of rat liver mitochondrial carnitine palmitoyltransferase can be made activatable by malonyl-CoA
I. Ghadiminejad and D. Saggerson (U.K.) 377

Rapid Reports

Oxidation of very-long-chain fatty acids in rat brain: cerotic acid is β -oxidized exclusively in rat brain peroxisomes
W. Lageweg, J.E.C. Sykes, M. Lopes-Cardozo and R.J.A. Wanders (The Netherlands) 381

Differences in lipogenesis in tissues of control and gold-thioglucose obese mice after an isocaloric meal
S.C. Blair, G.J. Cooney, G.S. Denyer, P.F. Williams and I.D. Caterson (Australia) 385

Author Index 393

